

ABSTRACT

The present invention includes an improvement to the existing method of
5 steam reforming of hydrocarbon, wherein the improvement comprises: the
flowing is at a rate providing a residence time less than about 0.1 sec
resulting in obtaining product formation yield or amount that is the same or
greater compared to product formation at a longer residence time. Another
improvement of the present invention is operation at a steam to carbon ratio that
10 is substantially stoichiometric and maintaining activity of the supported catalyst.
The present invention also includes a catalyst structure for steam reforming of a
hydrocarbon.

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